

Life Sciences and Industrial Division

REDEFINING INNOVATION

Over the years, we have acquired and developed technologies that leverage our telecom expertise into various life sciences and high-tech industrial markets. Our ability to reuse these core technologies in several adjacent markets necessitates a different kind of innovation. It requires ingenious, market-driven people capable of discerning and developing new opportunities. At EXFO, we continue to redefine innovation with the following three product lines:

X-CITE

Ultraviolet and visible spot-curing technologies were initially brought to market at EXFO for bonding optical components. We soon realized we could leverage them for fluorescence microscopy applications. The end-result is the X-Cite series, a family of high-intensity light sources providing unmatched performance for laboratory microscopes. In 2006, we released the X-Cite 120 XL, a next-generation system delivering superior image quality and 2000 hours of warranted lamp life – a first in the industry. To put this latest product development into perspective, the X-Cite 120 XL lasts 60% longer than the previous model (X-Cite 120) and up to 10 times longer than conventional illumination systems. The X-Cite 120 XL is a self-contained illumination unit separate from a microscope. A simple light-guide attachment through patented coupling optics ensures a uniform field of view with no heat from the lamp being transferred to the sample under study. Most of the major microscope manufacturers around the world are reselling this innovative solution to their existing base of customers.

OMNICURE

Over the last two decades, we have become the global leader in light-based curing and precision assembly of medical, microelectronic, digital printing and optical devices. Our ultraviolet/visible spot-curing products deliver precise doses of the appropriate spectral light onto photosensitive adhesives and other materials to significantly reduce curing time. A proprietary closed-loop feedback technology allows the user to select the required output levels, lock in the settings and continuously maintain them to ensure repeatable cures. Our state-of-the-art OmniCure Series 2000, based on 2000 hours of warranted lamp life, is a high-end automated system that can easily be controlled externally from a personal computer. These latest technological enhancements deliver stronger cures, heightened efficiency and reduced manufacturing costs for our customers. Sometimes innovation can be measured by improvements to the bottom line.

BURLEIGH

Innovation doesn't have to be rocket science, but sometimes it reaches those lofty heights. Our Inchworm motors, offering unmatched nanometer-scale resolution over relatively long travel, have manifold applications in the semiconductor and space industry. Even NASA has used our technology. These instruments are also highly useful for life science research, manufacturing and other advanced applications. In addition, we offer a unique line of piezoelectric-based positioning systems and high-performance mounting solutions – combining stability with extremely smooth and predictable instrument motion – to enable ground-breaking research in cell manipulation, electrophysiology and in-vitro fertilization.



X-Cite™ Series 120
Fluorescence
Illumination System



OmniCure™ Series 2000
Ultraviolet/Visible Spot-
Curing System



LSS-8000
Inchworm® Microdrive
System